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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/713,309	11/14/2003	Victor A. Quattrini	TELE03-00004	1223	
23990 . DOCKET CLE	7590 01/15/2008		EXAMINER		
P.O. DRAWER 800889			BEAUCHAINE, MARK J		
DALLAS, TX	75380	•	ART UNIT	PAPER NUMBER	
•			3653		
			MAIL DATE	DELIVERY MODE	
			01/15/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/713,309	QUATTRINI ET	QUATTRINI ET AL.	
Office Action Summary	Examiner	Art Unit		
	Mark J. Beauchaine	3653		
The MAILING DATE of this communication ap	pears on the cover sheet w	th the correspondence a	ddress	
Period for Reply				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin	ATE OF THIS COMMUNION (136(a). In no event, however, may a rewill apply and will expire SIX (6) MON e, cause the application to become AB	CATION. reply be timely filed ITHS from the mailing date of this BANDONED (35 U.S.C. § 133).	* * * * * * * * * * * * * * * * * * * *	
earned patent term adjustment. See 37 CFR 1.704(b).	3	,,,,		
Status		*		
1) Responsive to communication(s) filed on 15 C	October 2007			
2a) This action is FINAL . 2b) ⊠ This	s action is non-final.			
3) Since this application is in condition for allowa	ince except for formal matt	ers, prosecution as to the	ne merits is	
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D). 11, 453 O.G. 213.		
Disposition of Claims			. :	
*		*		
 4)⊠ Claim(s) <u>1-13</u> is/are pending in the application 4a) Of the above claim(s) is/are withdra 				
5) Claim(s) is/are allowed.	iwii iioiii consideration.		*	
6)⊠ Claim(s) <u>1-13</u> is/are rejected.	A contract of the second			
7) Claim(s) is/are objected to			. •	
8) Claim(s) are subject to restriction and/o	or election requirement.		*	
(,)				
Application Papers		• •		
9) The specification is objected to by the Examine	er.			
10)⊠ The drawing(s) filed on <u>14 November 2003</u> is/s	are: a)⊠ accepted or b)□	objected to by the Exa	miner.	
Applicant may not request that any objection to the	drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).	• .	
Replacement drawing sheet(s) including the correct		•	• ' '	
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attache	d Office Action or form F	PTO-152.	
Priority under 35 U.S.C. § 119		•	•	
12) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. 8	S 119(a)-(d) or (f)		
a) ☐ All b) ☐ Some * c) ☐ None of:	r priority ariable be biologic	5 · · · · · (a) · · · (·).	·,	
1. Certified copies of the priority documen	ts have been received.			
2. Certified copies of the priority documen	•	application No	•	
3. Copies of the certified copies of the price	ority documents have been	received in this Nationa	al Stage	
application from the International Burea	iu (PCT Rule 17.2(a)).	•		
* See the attached detailed Office action for a list	t of the certified copies not	received.		
	* .			
Attachment(a)				
Attachment(s) 1) Notice of References Cited (PTO-892)	4) \ Interview	Summary (PTO-413)		
2) Notice of References Cited (F70-092) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(5) Notice of I	s)/Mail Date nformal Patent Application	-	
Paper No(s)/Mail Date	6)	<u>_</u> ·		

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 10-12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The term "receiving" (claim 10, line 6) lacks sufficient antecedent basis.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3-8 and 10-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Patent Application Publication Number US 2004/0045787 A1 by

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Zimmerman ("Zimmerman") in view of Patent Number 4,371,783 by Grimmell et al ("Grimmell"). The coin processing apparatus disclosed by Zimmerman comprises coin presence sensor 5 comprising at least one sensor 11 mounted on one side of receptacle 2 (see Figure 6), said at least one sensor further comprising a light transmitting device for transmitting light into said receptacle, wherein said light is reflected off said coins when present, and a light receiving device for receiving the reflected light when coins are present (see paragraph 0037). Said light receiving device generates a first signal when coins are present and a second signal when coins are not present (see paragraphs 0040 and 0043 and Figure 11).

Zimmerman further discloses a coin supply arranged in a stack of coins and said sensor being positioned at a predetermined height to indicate the presence of absence of a coin at said predetermined height. Said predetermined height is correlated to a predetermined value of coin (see paragraph 0034, lines 8-12), and is at the top, the bottom, or in between the top and bottom of a coin stack (see Figure 6) to determine filled, near depletion and depletion states, respectively.

Zimmerman fails to disclose a mask and access port. Grimmell teaches a sensor comprising light transmitting device 2a, light receiving device 5 and mask 2 mounted on said sensor via an access port and having apertures constructed therein aligned with said transmitting and receiving devices (see Figure 1) to isolate the receiving device from exposure to transmitted light prior to reflection for the purpose of preventing unwanted light from distorting article detection signals produced by the sensor. It would have been obvious to one of ordinary skill in the art at the time the invention was made

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to incorporate the mask of Grimmell into the sensor of Zimmerman for the purpose of preventing unwanted light from distorting article detection signals produced by the sensor.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over
Zimmerman in view of Grimmell as applied to claim 1 above, and further in view of
Patent Number 5,755,618 by Mothwurf ("Mothwurf"). Zimmerman fails to disclose a
photodiode transmitter, a phototransistor receptor and an access port. Mothwurf
teaches coin sensors 641 (see Figures 2 and 4) comprising photodiode transmitters and
phototransistor receptors (see claims 3 and 4, respectively) for the purpose of providing
a means of detecting the presence or absence of coins within a receptacle. It would
have been obvious to one of ordinary skill in the art at the time the invention was made
to incorporate the photodiode transmitters and phototransistor receptors of Mothwurf
into the sensor of Zimmerman/Grimmell for the purpose of providing a means of
detecting the presence or absence of coins within a receptacle.

Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Zimmerman in view of Grimmell as applied to claim 1 above, and further in view of Patent Number 4,746,319 by Zwieg et al ("Zwieg"). Zimmerman/Grimmell fails to disclose said first and second signals being different output voltages. Zwieg teaches coin-detecting light sensor 37 generating first and second signals that are different voltage outputs (see column 5, lines 3-45) for the purpose of providing a basis of

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detecting the presence of a coin. It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the first and second signals of Zwieg into the apparatus of Zimmerman/Grimmell for the purpose of providing a basis of detecting the presence of a coin.

Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Patent Number US 6,371,845 B1 by Ishida et al ("Ishida") in view of Zimmerman. The coin dispensing apparatus disclosed by Ishida is operated by performing steps comprising establishing a selected height of stack of coins 41 in receptacle 4 correlated to a predetermined number of coins in said stack (see Figures 2 and 3), sensing the presence of said coins at said selected height (via sensor 23) and generating a signal in response thereto (see column 6, lines 47-56), storing the number of coins contained in a full stack of coins in response to said sensor signal (via RAM 13), and counting the number of dispensing operations and subtracting said number of dispensing operations from said stored number of coins in a stack to determine the number of coins remaining in the stack (see Figure 5).

Ishida fails to disclose the step of sensing the presence of coins at a selected height at any level with in said receptacle. Zimmerman teaches a coin retaining apparatus comprising a receptacle/sensor configuration that is operated by performing the step of sensing the presence of coins at a selected height at any level within the receptacle (see Figure 6 and paragraph 0037) for the purpose of maintaining a registry of coins within said apparatus. It would have been obvious to one of ordinary skill in the

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art at the time the invention was made to incorporate the receptacle/sensor configuration of Zimmerman into the coin dispensing apparatus of Ishida for the purpose of maintaining a registry of coins within said apparatus.

Response to Arguments

Applicant's arguments filed 15 October 2007 with respect to claim 13 have been considered but are moot in view of the new ground(s) of rejection.

Applicant's arguments filed 15 October 2007 regarding claims 1-12 have been fully considered but they are not persuasive. Regarding the Applicant's argument that motivation to incorporate the mask 2 of Grimmell (see Figure 1 of Grimmell) into the apparatus of Zimmerman, the sensor configuration of Zimmerman (see Figure 6 of Zimmerman) comprises a plurality of light transmitting/receiving device 11 that are both in close proximity to each other and mounted on open-faces receptacles 2 (see Figure 1 of Zimmerman). Such a configuration potentially exposes a particular light receiving device to unwanted sensor or ambient light which may distort the coin sensing signal of the apparatus disclosed by Zimmerman. Accordingly, one of ordinary skill in the art at the time of the invention would have been motivated to incorporate the mask of Grimmell into the apparatus of Zimmerman for the purpose of preventing a distortion of the coin detecting signal of said apparatus.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark J. Beauchaine whose telephone number is (571)272-6934. The examiner can normally be reached on 8:00AM through 5:00PM Mondays through Thursdays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick H. Mackey can be reached on (571)272-6916. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

mjb